



Accelerator & NuMI Upgrades Update

Paul Derwent

16 Apr 2013



Remaining Critical Path Hardware

- Remaining kickers are ready for installation
 - RR Extraction kicker installation today
- RF cavities:
 - First cavity in the tunnel, on the stand yesterday
 - 2nd at the end of the month
- Beam Pipe & Vacuum components:
 - Coming in, machine shop work still ongoing
 - Injection line installation moving along
 - Transfer lines first (MI8 and RR8), then Recycler Ring
 - Slowed down with some resource issues
 - Crew leader on FMLA (father in hospice)
 - Some other changes in MSD techs (lead vacuum tech leaving lab May 1, LIGO)



MI/RR Shutdown 2012

RR 53 MHz Cavity Installation

Recycler RF Status

- 53MHz cavity stands have been assembled.
- Waiting for RF testing to finish on #2 cavity so alignment can reference it prior to installation
- Cavity #3 cooling has been modified
 - Relocated to the tunnel
 - Installation Monday



Paul Derwent



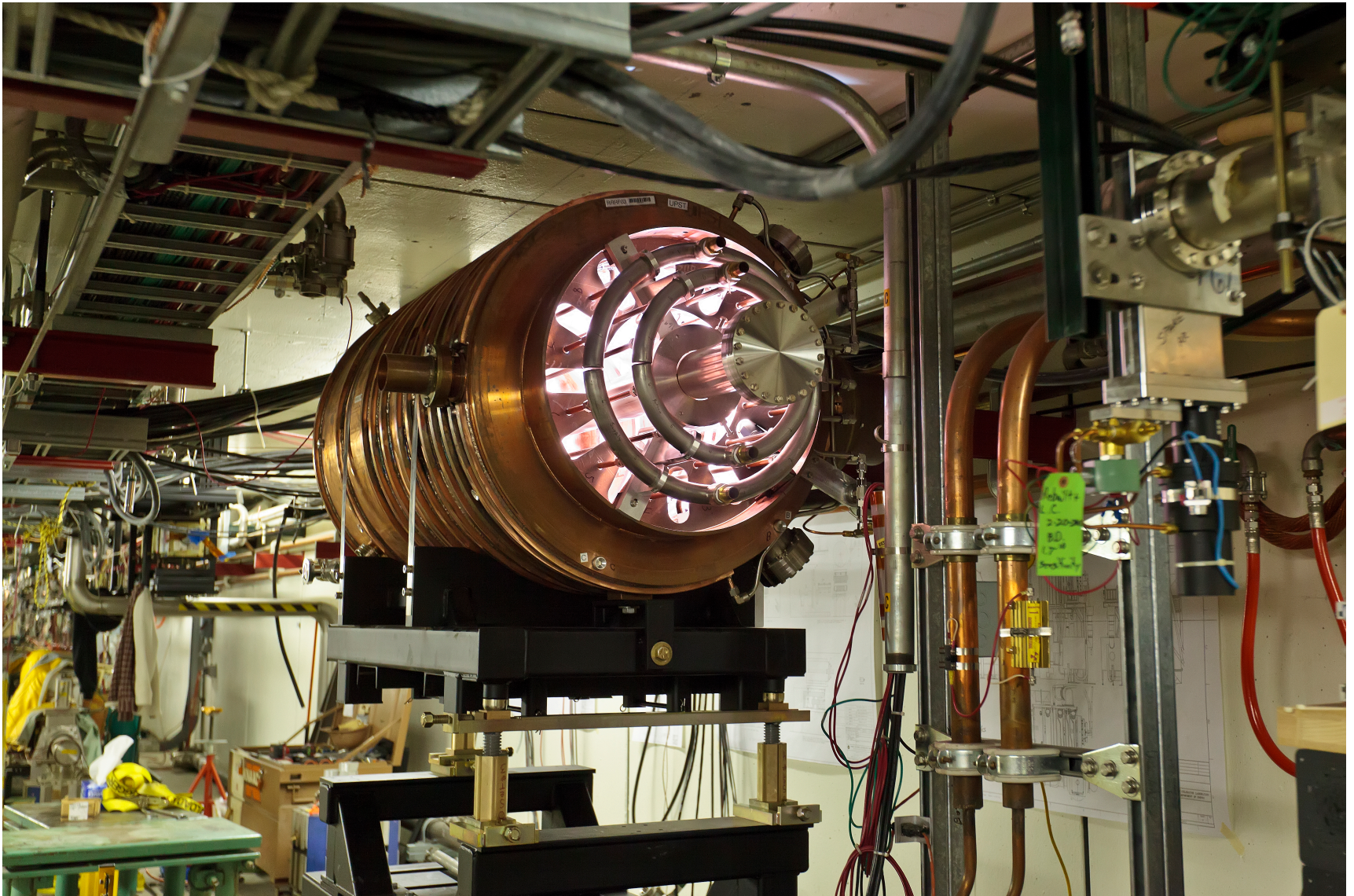
RF Cavity Installation



John Cornele (PPD), Ron LeBeau (AD), Bill Dymond (AD), Christine Ader(AD), Tom Olzsanowski (PPD), Rob Reilly (AD)



RF Cavity Installation

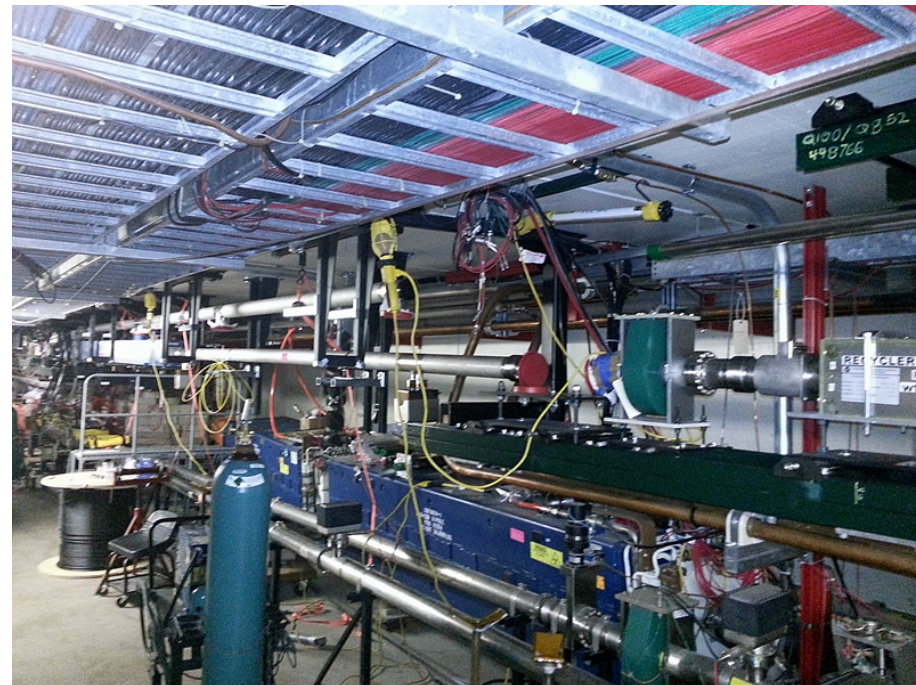
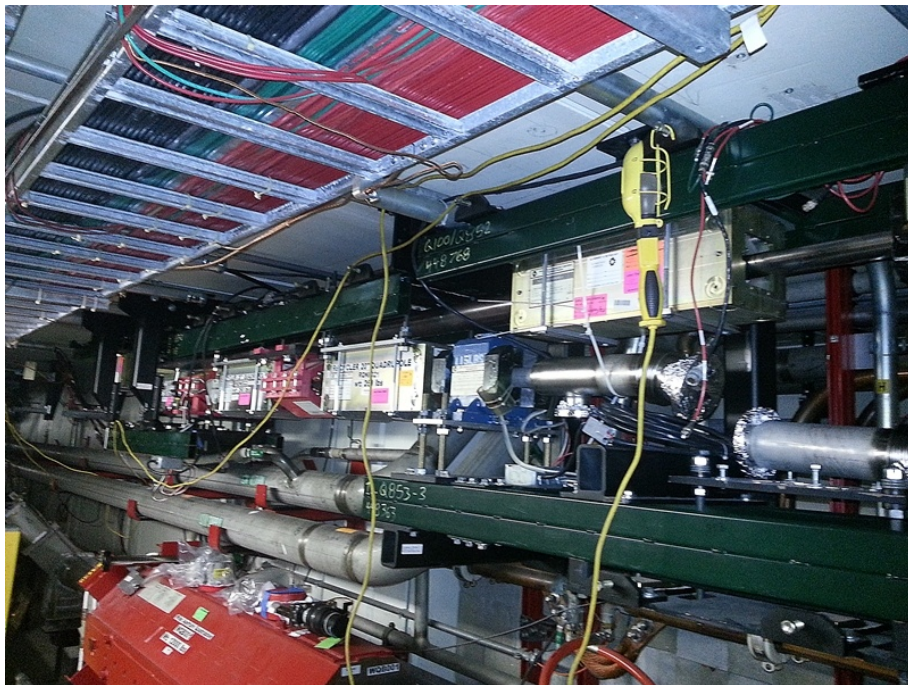




MI/RR Shutdown 2013

Injection:

- Continue making progress with re-assembly of the Recycler-8 line vacuum from 848 to RR ring
- Short handed for several weeks





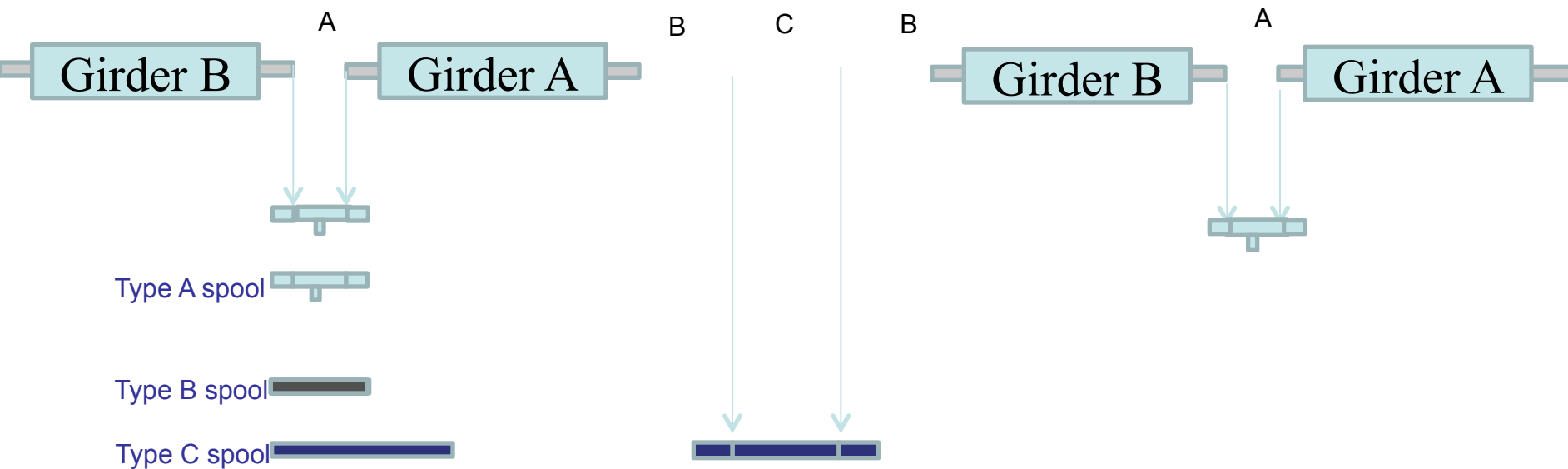
RR30 and Extraction Line Girders

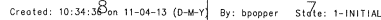




MI/RR Shutdown 2012

- RR30 Vacuum Installation Scheme







NuMI/NoVA Target

TA-01 moved to MI65 and lowered down the shaft
waited for a good weather day last week!
In the work cell, module connection and installation this week





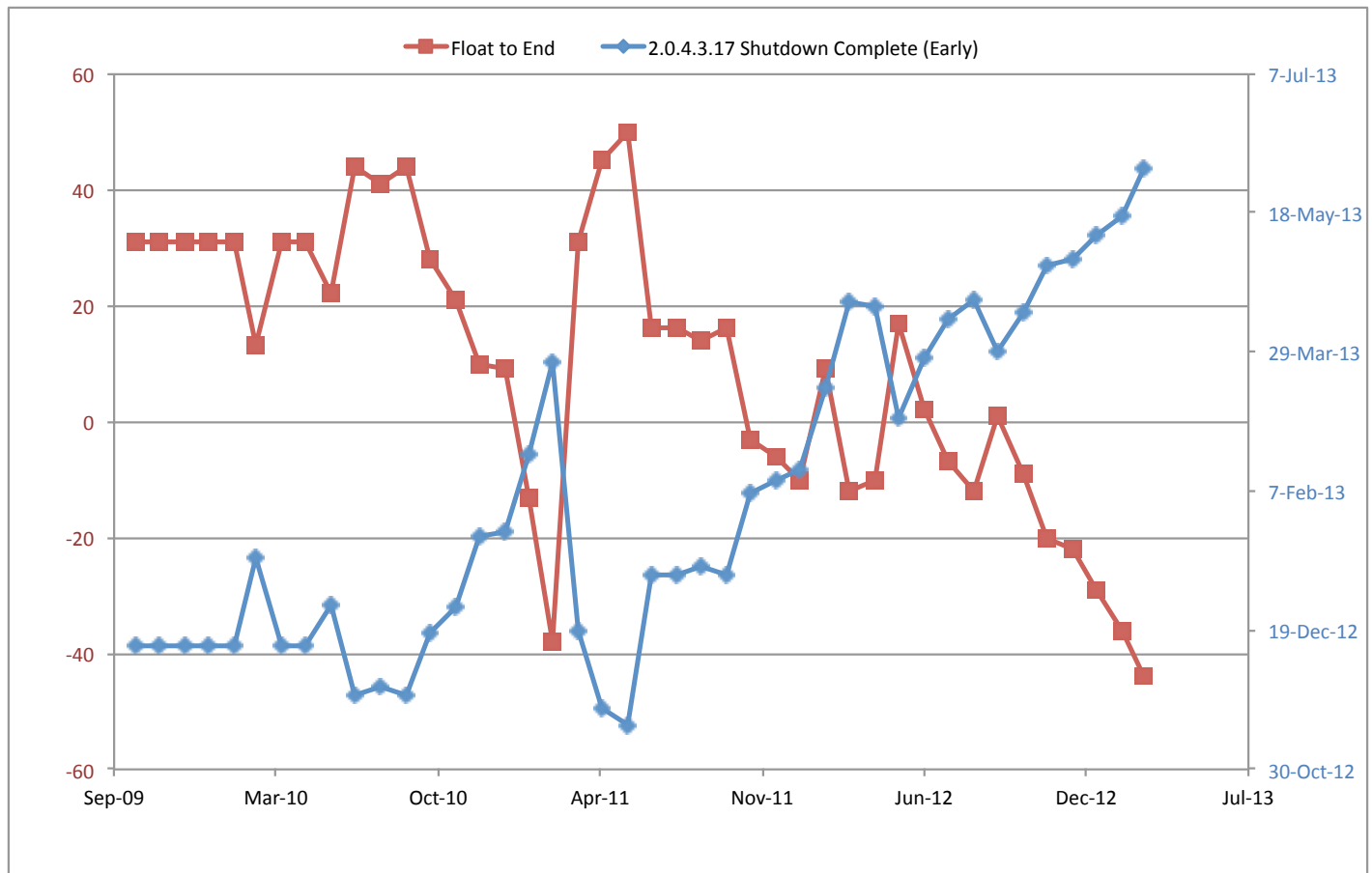
LCW progress

- April 1st: MI LCW turn on
 - Process is going well and will continue as planned
- April 8th We started to fill the MI-62 system for NuMI
 - Once filled the system will need some level of balancing
 - Enables pulse testing of the horns and filling all the skids
- Week of April 15th we planned to fill and hydro test the MI-8 system
 - Started early. System filled on Thursday April 11th
- 4 milestones in LCW system testing, should meet all in April



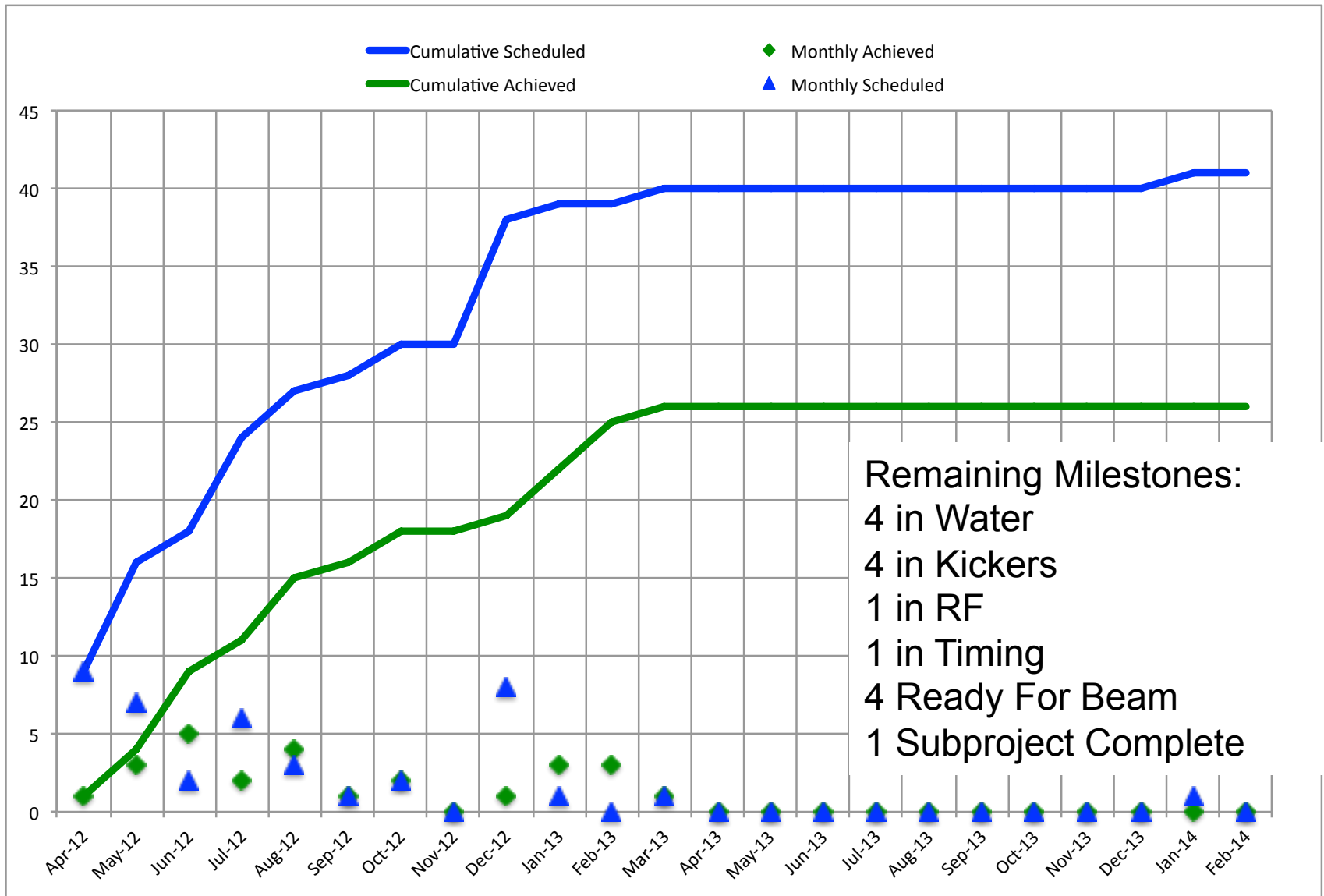
Shutdown float

- OpenPlan end of shutdown: June 3rd
 - RR30 installation -> vacuum installation in this area – 3rd week in May?
 - RF Cavity -> finishing all the power/vacuum/water connections





Remaining milestones



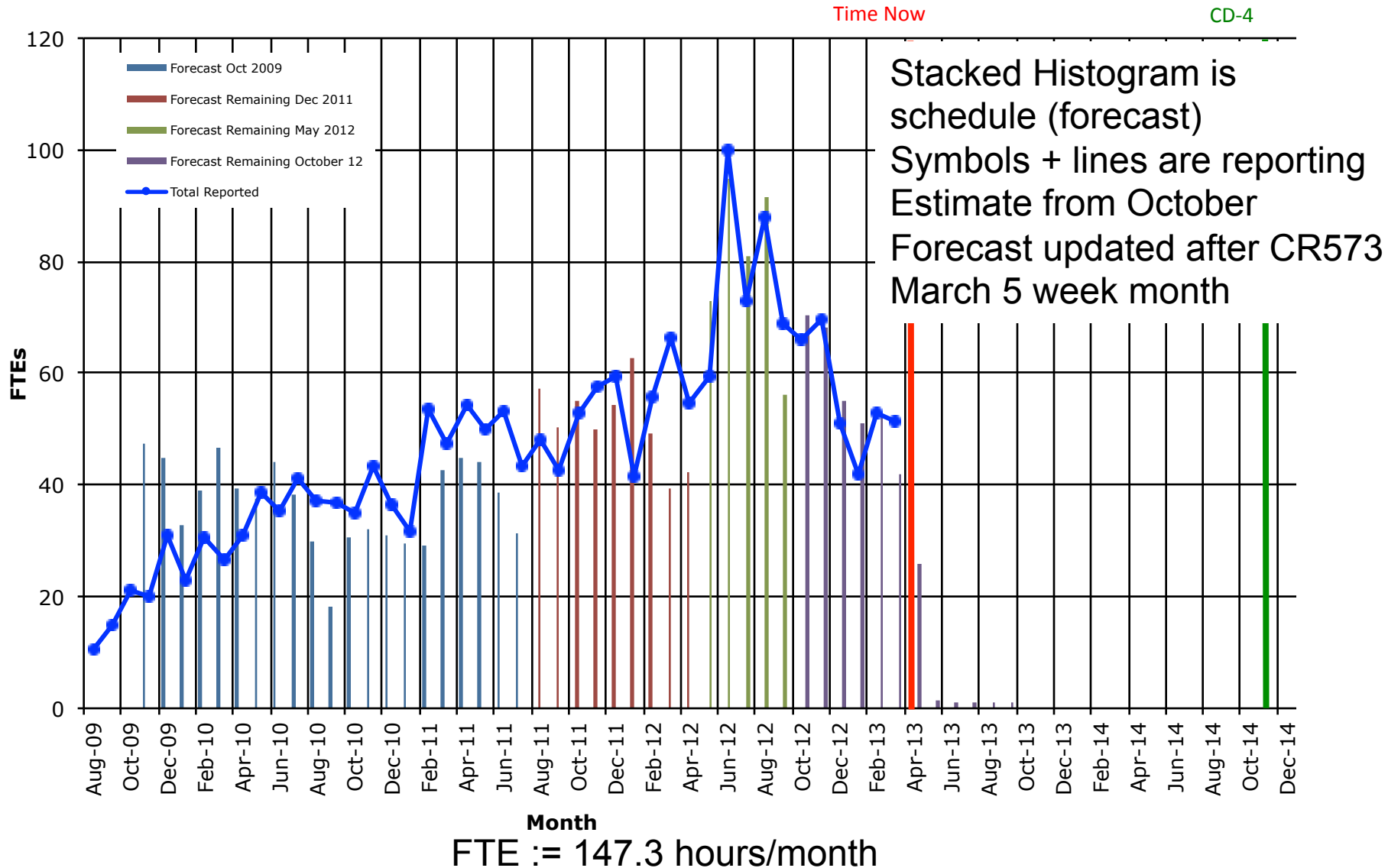


Summary

- Shutdown work progressing
 - 1st RF Cavity on the stand in the tunnel
 - 2 RR Extraction kickers installed today (last kicker magnet installation)
 - Vacuum work progressing
- Looking to late May for all project tunnel work complete
 - additional time to complete the other tunnel work



ANU Resource Requirements





Shorter term trending?

